

ReCap[™] Capillary Array Regeneration kit for ABI 3730 series Genetic Analyzer

Quick Reference Guide

*Version: 1.0
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Product and Company Information

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|----------------------|--|
| Product name: | ReCap [™] Capillary Array Regeneration kit for ABI 3730 series Genetic Analyzer |
| Product use: | For Research Use Only |
| Company: | NimaGen BV Lagelandseweg 56 6545 CG Nijmegen The Netherlands |
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Kit Content

| Description | Content |
|----------------|--------------|
| ReCap Buffer 1 | 13 mL bottle |
| ReCap Buffer 2 | 13 mL bottle |
| ReCap Buffer 3 | 13 mL bottle |
| ReCap Buffer 4 | 13 mL bottle |

Needed, but not included

| Description | Manufacturer |
|--|--------------|
| Deionized Water | |
| Clean empty polymer bottle (30 mL) | Nalgene |
| Fresh NimaPOP 4, 6 or 7 polymer for 3730 | NimaGen |
| Fresh NimaPOP 10x Running Buffer | NimaGen |

Introduction

The ReCap™ Capillary Array Regeneration kit offers a complete rejuvenation and revitalization of old and failing capillaries. The kit can be used on capillary arrays that start to lose resolution, or showing smears or tails in the electropherogram. Additionally, it cleans the pump blocks of the machine, preventing or getting rid of yellow or red haze.

Warning: Use good laboratory practice and wear proper protectives, including gloves, goggles and lab coat when handling the buffers supplied in this kit. Wash body parts with ample amount of water immediately if they come in contact with the buffers. Seek medical help if needed.

Quick-start Protocol

1. Start the computer and instrument and launch data collection software
2. Open the door and remove the left buffer jar from the pump block, Make sure the white drip tray is in place underneath the pump block
3. Fill the empty 30 mL bottle with deionized water and install it at the polymer bottle position
4. Perform and complete a water wash wizard from the wizard pull-down menu
 - ✓ When told to reinstall polymer, ignore this but leave the current bottle in the instrument. Choose for "same lot".
NOTE: When the system during the wizard asks for bubbles visible, always click "no", even if there are bubbles. Because of the lower viscosity of the buffers and water, there will form some bubbles in the pump chamber. This is no problem.
 - ✓ Finish the wizard by filling the capillary array. To do so, doors have to be closed. The array will now be filled with the content of the bottle.
NOTE: This takes only few seconds because of low viscosity
5. After clicking "finish" go to manual control and choose "polymer delivery pump" from main drop-down menu
 - ✓ Choose "Close Buffer Valve" → send command
 - ✓ Choose "Home Piston" → send command
 - ✓ Choose "Move Piston Down", Type "20000" steps → send command
 - ✓ Wait for 10 seconds
 - ✓ Click "send command" again to repeat the "piston down 20000" command
6. Open door and Install *ReCap Buffer 1* at polymer positions
7. Repeat step 4 -5 with Buffer 1 in the system instead of water
8. Leave the system for **60 minutes** after finishing step 6 with buffer 1 in capillaries
9. Open door and Install *ReCap Buffer 2* at polymer positions
10. Repeat step 4 -5 with Buffer 2 in the system instead of water
11. Leave the system for **5 minutes** after finishing step 6 with buffer 2 in capillaries
12. Open door and Install *ReCap Buffer 3* at polymer positions
13. Repeat step 4 -5 with Buffer 3 in the system instead of water
14. Leave the system for **30 minutes** after finishing step 6 with buffer 3 in capillaries
15. Open door and Install *ReCap Buffer 4* at polymer positions
16. Repeat step 4 -5 with Buffer 4 in the system instead of water
17. Leave the system for **5 minutes** after finishing step 6 with buffer 4 in capillaries
18. Open door and Install a bottle filled with deionized water
19. Repeat step 4 -5 with water in system. Block and capillaries are now filled with water and ready to be used
20. Run the Replenish polymer wizard
 - ✓ When told to reinstall polymer, apply a fresh bottle of polymer
 - ✓ In this last wizard, all bubbles should be gone after polymer is applied
 - ✓ Finish the wizard by filling the capillary array. (Doors have to be closed).
 - ✓ Take the white dripping tray from the system, clean it and place back
 - ✓ Remove all buffer and water vials from the instrument, clean them and fill with 1xbuffer / water (where applicable)

NOTE: Similar to a new capillary array, it may take up to two runs for the array to reach optimal performance.

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